Special Issue

Data-Driven Biomedical Research and Applications

Message from the Guest Editor

In the last decade, biomedical scientists gained more knowledge of physiopathological mechanisms thanks to two key factors: the advent of high-throughput technologies and the introduction of high-performance computing into routine research activities. The former led to the capability to analyze at the genomic and proteomic level a multitude of organisms, from bacteria to human beings. The second led to the possibility of modeling systems to discover unknown patterns of interactions and introduced artificial intelligence tools and techniques in the laboratory and clinical research. To exploit the huge amount of data routinely collected in these settings, the scientific community is called to action. Indeed, in this landscape, development of new data management and analysis methods and of new translational and clinical applications is required in order to build reliable biomedical models and to obtain more efficacy in personalized medical therapies. **Keywords:**
biostatistics
causal inference
predictive analytics
clinical models
bioinformatics
personalized medicine
epidemiology

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Deadline for manuscript submissions
closed (20 January 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/56791

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mdpi.com/journal/applsci

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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